



Monday, May 21, 2012

**Attn: Mr. Darrick Jones
Leggette, Brashears & Graham
6 Executive Drive
Farmington CT 06030**

**Project ID: SATIN
Sample ID#s: BB84415 - BB84419**

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller", is written over a light blue horizontal line.

**Phyllis Shiller
Laboratory Director**

**NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B**

**NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301**



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 21, 2012

FOR: Attn: Mr. Darrick Jones
Leggette, Brashears & Graham
6 Executive Drive
Farmington CT 06030

Sample Information

Matrix: GROUND WATER
Location Code: LBG-FARM
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

05/09/12 9:50

Time

05/10/12 15:06

Laboratory Data

SDG ID: GBB84415
Phoenix ID: BB84415

Project ID: SATIN

Client ID: RIZ-14

Parameter	Result	RL	Units	Date	Time	By	Reference
Extraction of CT ETPH	Completed			05/11/12		F/D	3510/3520
Semi-Volatile Extraction	Completed			05/10/12		F/E	SW3520

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	0.070	mg/L	05/15/12		JRB	CTETPH/8015DRO
Identification	ND		mg/L	05/15/12		JRB	CTETPH/8015DRO

QA/QC Surrogates

% n-Pentacosane	95		%	05/15/12		JRB	50 - 150 %
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Semivolatiles by SIM

2-Methylnaphthalene	ND	2.5	ug/L	05/12/12		DD	8270(SIM)
Acenaphthene	ND	2.5	ug/L	05/12/12		DD	8270(SIM)
Acenaphthylene	ND	0.30	ug/L	05/12/12		DD	8270(SIM)
Anthracene	ND	2.5	ug/L	05/12/12		DD	8270(SIM)
Benz(a)anthracene	ND	0.020	ug/L	05/12/12		DD	8270(SIM)
Benzo(a)pyrene	ND	0.020	ug/L	05/12/12		DD	8270(SIM)
Benzo(b)fluoranthene	ND	0.020	ug/L	05/12/12		DD	8270(SIM)
Benzo(ghi)perylene	ND	2.5	ug/L	05/12/12		DD	8270(SIM)
Benzo(k)fluoranthene	ND	0.020	ug/L	05/12/12		DD	8270(SIM)
Chrysene	ND	0.020	ug/L	05/12/12		DD	8270(SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	05/12/12		DD	8270(SIM)
Fluoranthene	ND	2.5	ug/L	05/12/12		DD	8270(SIM)
Fluorene	ND	2.5	ug/L	05/12/12		DD	8270(SIM)
Indeno(1,2,3-cd)pyrene	ND	0.020	ug/L	05/12/12		DD	8270(SIM)
Naphthalene	ND	2.5	ug/L	05/12/12		DD	8270(SIM)
Phenanthrene	ND	0.070	ug/L	05/12/12		DD	8270(SIM)
Pyrene	ND	2.5	ug/L	05/12/12		DD	8270(SIM)

QA/QC Surrogates

Project ID: SATIN
Client ID: RIZ-14

Phoenix I.D.: BB84415

Parameter	Result	RL	Units	Date	Time	By	Reference
% 2-Fluorobiphenyl	76		%	05/12/12		DD	30 - 130 %
% Nitrobenzene-d5	76		%	05/12/12		DD	30 - 130 %
% Terphenyl-d14	136		%	05/12/12		DD	30 - 130 %

3 = This parameter exceeds laboratory specified limits.

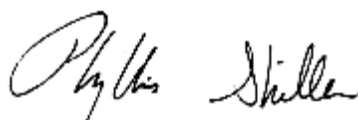
Comments:

* The surrogate failed method criteria due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No further action was necessary.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director

May 21, 2012

Reviewed and Released by: Bobbi Aloisa, Vice President



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Analysis Report

May 21, 2012

FOR: Attn: Mr. Darrick Jones
Leggette, Brashears & Graham
6 Executive Drive
Farmington CT 06030

Sample Information

Matrix: GROUND WATER
Location Code: LBG-FARM
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

05/09/12
05/10/12

Time

13:25
15:06

Laboratory Data

SDG ID: GBB84415
Phoenix ID: BB84416

Project ID: SATIN
Client ID: RIZ-11

Parameter	Result	RL	Units	Date	Time	By	Reference
Lead	< 0.002	0.002	mg/L	05/14/12		LK	6010/200.7
Total Metals Digestion	Completed			05/10/12		AG	

Comments:

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FOR: Attn: Mr. Darrick Jones
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6 Executive Drive
Farmington CT 06030

Sample Information

Matrix: GROUND WATER
Location Code: LBG-FARM
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

05/09/12 11:05
05/10/12 15:06

Laboratory Data

SDG ID: GBB84415
Phoenix ID: BB84417

Project ID: SATIN

Client ID: MW-14

Parameter	Result	RL	Units	Date	Time	By	Reference
Lead	0.018	0.002	mg/L	05/14/12		LK	6010/200.7
Total Metals Digestion	Completed			05/10/12		AG	

Comments:

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Analysis Report

May 21, 2012

FOR: Attn: Mr. Darrick Jones
Leggette, Brashears & Graham
6 Executive Drive
Farmington CT 06030

Sample Information

Matrix: GROUND WATER
Location Code: LBG-FARM
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

05/09/12 12:10
05/10/12 15:06

Laboratory Data

SDG ID: GBB84415
Phoenix ID: BB84418

Project ID: SATIN
Client ID: MW-11

Parameter	Result	RL	Units	Date	Time	By	Reference
Lead	< 0.002	0.002	mg/L	05/18/12		LK	6010/200.7
Total Metals Digestion	Completed			05/10/12		AG	

Comments:

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Analysis Report

May 21, 2012

FOR: Attn: Mr. Darrick Jones
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6 Executive Drive
Farmington CT 06030

Sample Information

Matrix: GROUND WATER
Location Code: LBG-FARM
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

05/09/12 12:45
05/10/12 15:06

Laboratory Data

SDG ID: GBB84415
Phoenix ID: BB84419

Project ID: SATIN

Client ID: MW-10

Parameter	Result	RL	Units	Date	Time	By	Reference
Lead	< 0.002	0.002	mg/L	05/14/12		LK	6010/200.7
Total Metals Digestion	Completed			05/10/12		AG	

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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May 21, 2012

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QA/QC Report

May 21, 2012

QA/QC Data

SDG I.D.: GBB84415

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 200482, QC Sample No: BB84508 (BB84416, BB84417, BB84418, BB84419)												
<u>ICP Metals - Aqueous</u>												
Lead	BDL	0.002	<0.002	NC	104	99.9	4.0	105	103	1.9	75 - 125	20



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QA/QC Report

May 21, 2012

QA/QC Data

SDG I.D.: GBB84415

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 200232, QC Sample No: BB82301 (BB84415)									
<u>TPH by GC (Extractable Products) - Ground Water</u>									
Ext. Petroleum HC	ND	96	91	5.3				50 - 150	20
% n-Pentacosane	114	115	114	0.9				50 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 200449, QC Sample No: BB84163 (BB84415)

Semivolatiles - Ground Water

2-Methylnaphthalene	ND	68	68	0.0				30 - 130	20
Acenaphthene	ND	71	71	0.0				30 - 130	20
Acenaphthylene	ND	69	70	1.4				30 - 130	20
Anthracene	ND	73	75	2.7				30 - 130	20
Benz(a)anthracene	ND	80	82	2.5				30 - 130	20
Benzo(a)pyrene	ND	67	68	1.5				30 - 130	20
Benzo(b)fluoranthene	ND	74	76	2.7				30 - 130	20
Benzo(ghi)perylene	ND	82	83	1.2				30 - 130	20
Benzo(k)fluoranthene	ND	72	75	4.1				30 - 130	20
Chrysene	ND	73	74	1.4				30 - 130	20
Dibenz(a,h)anthracene	ND	75	77	2.6				30 - 130	20
Fluoranthene	ND	72	73	1.4				30 - 130	20
Fluorene	ND	73	73	0.0				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	78	79	1.3				30 - 130	20
Naphthalene	ND	66	66	0.0				30 - 130	20
Phenanthrene	ND	76	77	1.3				30 - 130	20
Pyrene	ND	73	74	1.4				30 - 130	20
% 2-Fluorobiphenyl	74	62	64	3.2				30 - 130	20
% Nitrobenzene-d5	78	65	65	0.0				30 - 130	20
% Terphenyl-d14	102	72	72	0.0				30 - 130	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
May 21, 2012

QA/QC Data

SDG I.D.: GBB84415

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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Sample Criteria Exceedences Report

Requested Criteria: GWP, SWP

GBB84415

SampNo	LocCode	Acode	Phoenix Analyte	Criteria Units	ST	State Category	Criteria Name	Result	RL	Factored Criteria	Factored RL Criteria	Analysis Units
BB84417	LBG-FARM	PB-WM	Lead	ug/L	CT	Inorganic Substances	GWPC (µg/L)	0.018	0.002	0.015	0.015	mg/L
BB84417	LBG-FARM	PB-WM	Lead	ug/L	CT	Inorganic Substances	SWPC (µg/L)	0.018	0.002	0.013	0.013	mg/L

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** LBG-FARM

Project Location: SATIN **Project Number:**

Laboratory Sample ID(s): BB84415, BB84416, BB84417, BB84418, BB84419

Sampling Date(s): 5/9/2012

RCP Methods Used:

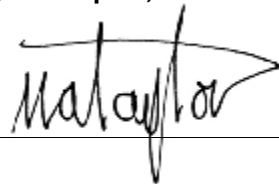
☐ 1311/1312 ☒ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☐ 8082 ☐ 8151 ☐ 8260 ☒ 8270 ☒ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:



Date: Monday, May 21, 2012
Printed Name: Maryam Taylor
Position: Project Manager



Environmental Laboratories, Inc.
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RCP Certification Report

May 21, 2012

SDG I.D.: GBB84415

The client requested a shorter list of elements than the 6010 RCP list.

8270 Semi-volatile Organics:

Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-fid84 05/15/12-1 (BB84415)

Initial Calibration (FID84 - ETPH_13) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30% RSD.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers:C36

Printed Name Jeff Bucko
Position: Chemist
Date: 5/15/2012

QC Comments: QC Batch 00232 05/08/12 (BB84415)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC (Batch Specific)

----- Sample No: BB82301, QA/QC Batch: 200232 -----

All LCS recoveries were within 50 - 150 with the following exceptions: None.

All LCSD recoveries were within 50 - 150 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

ICP Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Icp10 05/13/12-1 (BB84416, BB84417, BB84418, BB84419)

The initial calibration met criteria.

The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.

The continuing calibration blanks were less than the reporting level for the elements reported.

The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.



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RCP Certification Report

May 21, 2012

SDG I.D.: GBB84415

Printed Name Laura Kinnin
Position: Chemist
Date: 5/13/2012

Instrument: Icp10 05/14/12-1 (BB84416, BB84417, BB84418, BB84419)

The initial calibration met criteria.

The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.

The continuing calibration blanks were less than the reporting level for the elements reported.

The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 5/14/2012

Instrument: Icp10 05/17/12-1 (BB84418)

The initial calibration met criteria.

The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.

The continuing calibration blanks were less than the reporting level for the elements reported.

The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 5/17/2012

QC (Batch Specific)

----- Sample No: BB84508, QA/QC Batch: 200482 -----

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

QC Comments: QC Batch 00449 05/10/12 (BB84415)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.



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RCP Certification Report

May 21, 2012

SDG ID.: GBB84415

QC (Batch Specific)

----- Sample No: BB84163, QA/QC Batch: 200449 -----

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Chem04 05/11/12-1 (BB84415)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

If PAH/base neutral were requested, Phoenix utilized a method that contained a shortened list, so some of the compounds in the narrative may be non-applicable.

Initial Calibration (Chem04/SIM_0511):

Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: Bis(2-ethylhexyl)phthalate

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:

Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compounds had >20% difference from the initial calibration: None.

Printed Name Damien Drobinski

Position: Chemist

Date: 5/11/2012

QC Comments: QC Batch 00449 05/10/12 (BB84415)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

